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RELIABILITY PREDICTION

Model : S-100F Data:2000-01-04

Style	Part Type	Q'ty	λ_g	π_Q	λ_{eg}	%
9.1	Resistor-Film, Insulated (RL)	30	0.003700	10	1.110000	34.954
9.1	Resistor-Wirewound Power (RW)	1	0.008500	10	0.085000	2.677
9.1	Resistor-Film, Variable (RVC)	1	0.040000	10	0.400000	12.596
9.1	Resistor-Thermistor (RTH)	1	0.001400	10	0.014000	0.441
10.1	Capacitor-Metal, Plastic (CH)	9	0.000510	10	0.045900	1.445
10.1	Capacitor-Ceramic(Gen.) (CK)	13	0.001700	10	0.221000	6.959
10.1	Capacitor-Aluminum Dry (CE)	7	0.001300	10	0.091000	2.866
6.1	Diode-Switching	2	0.000940	8	0.015040	0.474
6.1	Diode-Fast Recovery Power Rectifier	2	0.023000	8	0.368000	11.588
6.1	Diode-Power Rectifier / Schottky Power	4	0.002800	8	0.089600	2.822
6.1	Diode-Voltage Ref/Reg. (Avalanche & Zener)	2	0.003300	8	0.052800	1.663
6.1	Diode-Transient Suppressor/Varistor	3	0.002900	8	0.069600	2.192
6.10	Diode-Thyristor/SCR	1	0.002500	8	0.020000	0.630
6.3	Transistor-NPN/PNP	2	0.000150	8	0.002400	0.076
6.4	Transistor-MOSFET	1	0.014000	8	0.112000	3.527
6.11	OPTO-isolator	1	0.027000	8	0.216000	6.802
5.1	Linear Microcircuits	2	0.009500	10	0.190000	5.983
11.1	Transformer Switching	1	0.000610	3	0.001830	0.058
11.2	Coil Fixed inductor or choke	3	0.000032	3	0.000288	0.009
17.1	Single Connections-Reflow solder	245	0.000069	1	0.016905	0.532
17.1	Fuses Clip-Clip Termination	2	0.000120	1	0.000240	0.008
22.1	Fuses	1	0.010000	1	0.010000	0.315
16.1	Plated Through Hole Circuit Boards	1	0.022000	2	0.044000	1.386
Total Failure rate:					3.175603	100%

- **Data Base: MIL-HDBK-217F ,Notice 2, Parts Count**
- **Env.: GB**

MTBF: 314900.82 **hrs**

Approved by: David Wang Compiled by: Kim Tseng